

---

The minimization problem is solved by integrating a system of ODEs.

[called by: [solvers](#).]

[calls: [solvers](#).]

---

## overview

1. The evolution is described mathematically as a system of coupled, first-order equations:

$$\frac{\partial \mathbf{x}}{\partial \tau} = - \frac{\partial E}{\partial \mathbf{x}}, \tag{1}$$

where  $\tau$  is an artificial time,  $\mathbf{x}$  is the free coil parameters.

2. The integration was originally performed using [NAG:D02BJF](#).
3. It's now implemented with [ODEPAC](#). And the source code is in [ode.F90](#).
4. The minimization is controlled by [DF\\_tausta](#), [DF\\_tauend](#), [DF\\_xtol](#) and [DF\\_maxiter](#).

---

descent.h last modified on 18-09-26 01:28:09.0;

[Focus subroutines](#);

---